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> karzu 4D Green 16-Line Laser Level User Manual

karzu 4D Green 16-Line Laser Level (Model: B0G7D9N71J)

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Model: B0G7D9N71J

Brand: karzu

1. INTRODUCTION

Thank you for choosing the karzu 4D Green 16-Line Laser Level. This device is designed for precise leveling and alignment tasks in various construction and DIY projects. It features advanced 4x360° green laser technology, self-leveling capabilities, and a clear LED battery display for efficient operation. Please read this manual thoroughly before use to ensure safe and optimal performance.

2. SAFETY INSTRUCTIONS

Always follow basic safety precautions when using this product to reduce the risk of injury or damage.

- **Laser Safety:** This product emits a Class II laser. Do not stare directly into the laser beam. Avoid directing the laser beam at people or animals.
- **Eye Protection:** Wear appropriate eye protection when operating the laser level, especially in bright conditions.
- **Operating Environment:** Use the device in a stable and secure environment. Avoid exposure to extreme temperatures, moisture, or strong vibrations.
- **Battery Safety:** Use only the specified batteries and charger. Do not short-circuit, disassemble, or expose batteries to high temperatures.
- **Maintenance:** Do not attempt to modify or repair the device yourself. Refer all servicing to qualified personnel.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1x karzu 4D Green 16-Line Laser Level
- 1x Soft Carrying Bag
- 2x Removable 2400 mAh Batteries
- 1x User Manual (this document)
- 1x DC Charger
- 1x Metal Plate

- 1x Multifunction Magnetic Bracket
- 2x Connection Fittings
- 1x Lifting Platform
- 1x Laser Target
- 1x Remote Control

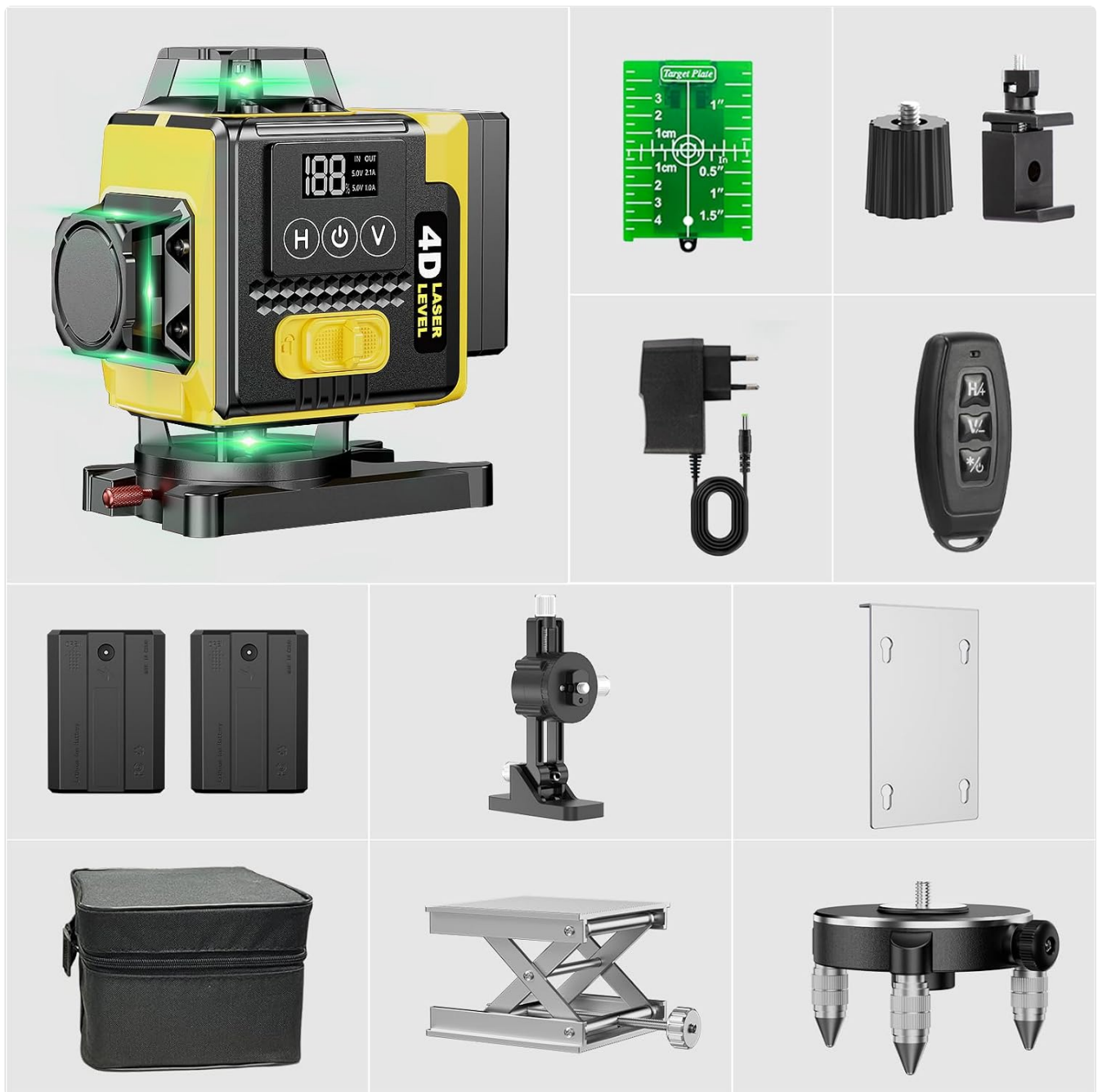


Figure 3.1: Overview of all included accessories and the laser level.

4. PRODUCT OVERVIEW

4.1 Components

The karzu 4D Green 16-Line Laser Level features a robust design with key components for precise operation:

- **Laser Emitters:** Four 360° green laser diodes provide comprehensive coverage.
- **LED Display:** Shows real-time battery charge level.
- **Control Panel:** Intuitive buttons for mode selection and laser line activation.

- **Battery Compartment:** Houses the removable 2400 mAh batteries.
- **Locking Mechanism:** Secures the pendulum for manual mode or transport.
- **360° Rotating Base:** Allows for fine adjustment of the laser direction.

LED POWER DISPLAY

Shows Real-time Power Percentage



Figure 4.1: The LED display indicates the remaining battery charge in real-time.

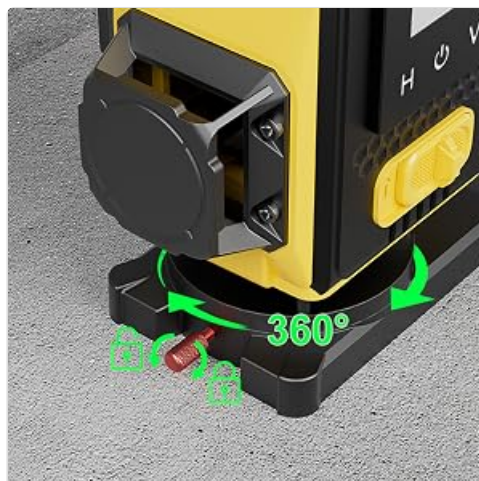


Figure 4.2: The integrated 360° rotating base allows for precise angular adjustments.

4.2 Controls

The device features a user-friendly control panel and a remote control for convenient operation.

- **Power Switch:** Located on the side, slides to turn the device ON/OFF and engage/disengage the pendulum lock.
- **'H' Button:** Activates/deactivates horizontal laser lines.
- **'V' Button:** Activates/deactivates vertical laser lines.
- **Manual Mode Activation:** Press and hold the power button for 2 seconds while the pendulum is locked to enter manual mode.



Figure 4.3: The laser level can be controlled via touch buttons on the unit or with the included remote control.

5. SETUP

5.1 Battery Installation and Charging

1. Open the battery compartment cover.
2. Insert one or both 2400 mAh batteries, ensuring correct polarity.
3. Close the battery compartment cover securely.
4. To charge, connect the DC charger to the device and a power outlet. The LED display will indicate charging status.

The package includes two batteries, allowing you to charge one while using the other for continuous operation.



Figure 5.1: The laser level operates with removable 2400 mAh batteries.

5.2 Mounting Options

The laser level offers multiple mounting solutions for various applications:

- **Tripod Mounting:** The device has a 1/4" threaded mount at the bottom for attachment to a standard tripod (tripod not included).
- **Magnetic Bracket:** Use the multifunction magnetic bracket to attach the laser level to metal surfaces.
- **Lifting Platform:** The included lifting platform allows for precise height adjustments.
- **Wall Mount Frame:** Utilize the wall mount frame for secure attachment to vertical surfaces.



Figure 5.2: Various mounting accessories provide flexibility for different work environments.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off and Self-Leveling Mode

1. Place the laser level on a stable surface or mount it using an appropriate accessory.
2. Slide the power switch to the 'ON' position. The pendulum will unlock, and the device will automatically self-level.
3. If the device is outside its self-leveling range ($\pm 3^\circ$), the laser lines will flash, and an audible alarm will sound. Adjust the device's position until it self-levels.
4. To turn off, slide the power switch to the 'OFF' position. This also locks the pendulum for safe transport.



Figure 6.1: The device automatically self-levels within $\pm 3^\circ$. An alarm sounds if the angle is exceeded.

6.2 Manual/Locked Mode

For projecting inclined lines, such as for stairs or sloped roofs:

1. With the power switch in the 'OFF' (locked) position, press and hold the power button on the control panel for 2 seconds.
2. The laser lines will activate without self-leveling, allowing you to project lines at any desired angle.
3. To exit manual mode, slide the power switch to 'ON' and then back to 'OFF', or simply turn the device off.

6.3 Switching Laser Lines

- Press the 'H' button to cycle through the horizontal laser planes (one, two, or off).
- Press the 'V' button to cycle through the vertical laser planes (one, two, or off).



Figure 6.2: The 4x360° laser provides comprehensive coverage with two horizontal and two vertical planes.

6.4 Pulse Mode (Outdoor Use)

For extended range and outdoor visibility with a laser receiver (not included):

1. Turn on the laser level in self-leveling mode.
2. Press the pulse mode button (often indicated by a sun or pulse icon, or a specific combination of H/V presses, refer to the device's specific button layout if different from general).
3. The laser lines will become dimmer but will be detectable by a compatible laser receiver up to 150 meters.
4. Press the pulse mode button again to deactivate it.

7. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Keep the laser apertures clean and free of dust.
- **Battery Care:** Remove batteries if the device will not be used for an extended period. Store batteries in a cool, dry place.

- **Storage:** Store the laser level in its soft carrying bag in a dry, dust-free environment, away from direct sunlight and extreme temperatures.
- **Calibration:** While the device is factory calibrated, regular checks for accuracy are recommended, especially after impacts or prolonged use. Consult a professional for recalibration if necessary.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Laser lines are flashing and alarm sounds.	Device is outside its self-leveling range ($\pm 3^\circ$).	Adjust the device's position until it is within the self-leveling range.
No laser lines appear.	Low battery, device is off, or laser lines are deactivated.	Check battery charge, ensure device is ON, press 'H' or 'V' buttons to activate lines.
Laser lines are dim.	Pulse mode is active, or ambient light is too bright.	Deactivate pulse mode if not using a receiver. Use a laser target plate in bright conditions.
Remote control not working.	Remote battery is dead, or device is out of range.	Replace remote control battery. Ensure remote is within operating range of the laser level.

9. SPECIFICATIONS

Feature	Specification
Brand	karzu
Model	B0G7D9N71J
Laser Class	Class II
Laser Color	Green
Number of Lines	16 (4x360°)
Self-Leveling Range	$\pm 3^\circ$
Indoor Range	Up to 30m
Outdoor Range (with receiver)	Up to 150m
Battery Type	2x 2400 mAh Lithium-ion
Material	ABS
Item Weight	1.6 Kilograms
Operating Mode	Automatic / Manual
Manufacturer	QIDONG VERTICAL AND HORIZONTAL PHOTOELECTRIC TECHNOLOGY CO.,LTD
Country of Origin	China
GTIN	744299706570

10. WARRANTY AND SUPPORT

The karzu 4D Green 16-Line Laser Level comes with a standard manufacturer's warranty. For specific warranty details, please refer to the warranty card included in your package or contact karzu customer support. If you encounter any issues or require technical assistance, please reach out to the seller or karzu customer service through the contact information provided with your purchase.